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a blocked crosslinking agent,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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15. (Amended) A marking composition, comprising:

a polymer first material comprising silicon;

a second material capable of extending polymeric chains of the first material; and an optical tag,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

16. (Amended) A marking composition, comprising:

a polymer silicone resin; and

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a blocked crosslinking agent capable of crosslinking with the resin,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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26. (Amended) The composition of claim 16, comprising about 10 to about 90 percent of the resin; and about 0.1 to about 9 percent of the crosslinking agent.

35. (Amended) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising:

a polymer first material comprising silicon; and

a second material capable of extending polymeric chains of the first material,

wherein the first material comprises a phenyl methyl silicone resin and the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1, and

the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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43. (Amended) The article of claim 35, wherein the composition further comprises a crosslinking agent.

45. (Amended) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising

a polymer first material comprising silicon;

a second material capable of extending polymeric chains of the first material; and

a blocked crosslinking agent,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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47. (Amended) The article of claim 35, wherein the composition further comprises a catalyst.

49. (Amended) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising

a polymer first material comprising silicon;

a second material capable of extending polymeric chains of the first material; and

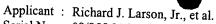
an optical tag,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

Please add claims 52-88.

(New) The composition of claim 11, wherein the second material is capable of crosslinking with the first material.





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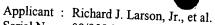
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53. (New) The composition of claim 11, wherein the second material comprises a polyol.

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- (New) The composition of claim 11, wherein the second material is selected from 54. a group consisting of a diol and a triol.
- 55. (New) The composition of claim 11, wherein the first material comprises a silicone resin.
- 56. (New) The composition of claim 11, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.
- (New) The composition of claim 11, wherein the first material comprises a phenyl 57. methyl silicone resin.
- (New) The composition of claim 57, wherein the weight ratio of phenyl to methyl 58. groups is between about 0.4:1 and 2.1:1.
 - (New) The composition of claim 11, further comprising a catalyst. 59.
- (New) The composition of claim 59, wherein the catalyst is selected from a group 60. consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.
- 61. (New) The composition of claim 15, wherein the second material is capable of crosslinking with the first material.
- (New) The composition of claim 15, wherein the second material comprises a 62. polyol.





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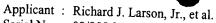
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63. (New) The composition of claim 15, wherein the second material is selected from a group consisting of a diol and a triol.

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- 64. (New) The composition of claim 15, wherein the first material comprises a silicone resin.
- 65. (New) The composition of claim 15, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.
- 66. (New) The composition of claim 15, wherein the first material comprises a phenyl methyl silicone resin.
- 67. (New) The composition of claim 66, wherein the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
 - 68. (New) The composition of claim 15, further comprising a crosslinking agent.
- 69. (New) The composition of claim 68, wherein the crosslinking agent comprises a silane.
 - 70. (New) The composition of claim 15, further comprising a catalyst.
- 71. (New) The composition of claim 70, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.
- 72. (New) The composition of claim 45, wherein the second material is capable of crosslinking with the first material.
- 73. (New) The composition of claim 45, wherein the second material comprises a polyol.





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74. (New) The composition of claim 45, wherein the second material is selected from a group consisting of a diol and a triol.

- 75. (New) The composition of claim 45, wherein the first material comprises a silicone resin.
- 76. (New) The composition of claim 45, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.
- 77. (New) The composition of claim 45, wherein the first material comprises a phenyl methyl silicone resin.
- 78. (New) The composition of claim 77, wherein the weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
 - 79. (New) The composition of claim 45 further comprising a catalyst.
- 80. (New) The composition of claim 79, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.
 - 81. (New) A marking composition, comprising:

a polymer first material comprising a phenyl methyl silicone resin, the weight ratio of phenyl to methyl groups being between about 0.4:1 and 2.1:1; and

a crosslinking agent,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

82. (New) The composition of claim 81, wherein the crosslinking agent comprises a silane.

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(New) The composition of claim 81, further comprising a blocked crosslinking 83. agent.

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(New) The composition of claim 83, wherein the blocked crosslinking agent 84. comprises a carbamate.

(New) The composition of claim 81, further comprising a catalyst. 85.

(New) The composition of claim 85, wherein the catalyst is selected from a group 86. consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.

(New) The composition of claim 15, wherein the optical tag comprises 2,2'-(2,5-87. thiophenediyl) bis [5-tert-butyl benzox azole].

(New) The article of claims 49, wherein the the optical tag comprises 2,2'-(2,5-88. thiophenediyl)bis[5-tert-but/lbenzoxazole].